CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-09-13-04**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore. **Date: 16-09-17**
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Hospital Building in Ward No.02
Agency	:	Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/56/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-09-17
Sample ID No	:	2017-09-13-04-01(a)
Sample Type/Size	:	Solid concrete blocks of size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	13-09-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	100	200	8020	17.600	2194.5	2145.3	Not less than 1800Kg/m^3
2	400	101	200	8080	17.400	2153.5		
3	401	102	202	8262	17.250	2087.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	18.500	17.750	4.23	4.26	Shall not be more than 10% by mass
2	18.600	17.860	4.14		
3	18.950	18.150	4.41		

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Lab ID : **CP-2017-09-13-04** **Date: 16-09-17**

Sample ID No : **2017-09-13-04-01(a)**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	102	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	100	201	
3	401	100	201	
4	400	102	202	
5	400	101	202	
6	401	100	201	
7	401	101	200	
8	402	101	200	
9	402	101	201	
10	400	100	201	
11	401	103	200	
12	400	102	201	
13	401	101	200	
14	402	100	200	
15	401	100	201	
16	400	100	200	
17	402	100	201	
18	401	104	200	
19	404	102	201	
20	403	101	200	
Average of 20	**401**	**101**	**201**	

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Lab ID : **CP-2017-09-13-04**

Sample ID No : 2017-09-13-04-01(a)

Date: 16-09-17

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	102	41106	200.6	4.9	4.7
2	402	100	40200	198.5	4.9	
3	401	100	40100	190.5	4.8	
4	400	102	40800	191.5	4.7	
5	400	101	40400	186.5	4.6	
6	401	100	40100	185.2	4.6	
7	401	101	40501	180.1	4.4	
8	402	101	40602	191.4	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2017-09-13-04** **Date: 19-09-17**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Hospital Building in Ward No.02
Agency	:	Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/56/2017-18
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-09-17
Sample ID No	:	2017-09-13-04/02
Identification Mark on Brick	:	Non Modular Bricks
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	13-09-17

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	227.68	109.37	24901	204.1	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	225.89	108.36	24477	201.6	8.2	
3	226.62	107.35	24328	204.2	8.4	
4	227.49	108.62	24710	200.3	8.1	
5	228.35	107.88	24634	198.4	8.1	
Average of 5 bricks					**8.2**	

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Lab ID : **CP-2017-09-13-04** **Date: 19-09-17**

Sample ID No : **2017-09-13-04/02**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.957	3.295	11.4	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.645	2.876	8.7	
3	2.903	3.196	10.1	
4	2.758	2.995	8.6	
5	2.948	3.218	9.2	
Average Water Absorption(%)			**9.6**	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.35	107.48	24651	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.27	109.72	25046	Moderate	
3	227.18	108.41	24629	Slight	
4	228.57	107.98	24681	Moderate	
5	229.35	109.34	25077	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4625	4520 to 4680 mm
2	Width	2171	2160 to 2240 mm
3	Height	1393	1360 to 1440 mm

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CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-09-13-04** **Date: 14-09-17**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Hospital Building in Ward No.02
Agency	:	Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/56/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-09-17
Sample ID No	:	2017-09-13-04-02
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	13-09-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	568	685	20.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.888	585	692	19.0%	Satisfactory	Satisfactory
4	JSW	Fe500	16	1.580	590	696	19.5%	Satisfactory	Satisfactory
5	JSW	Fe500	20	2.470	596	699	18.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-23-07**

Date: 25/09/2017

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Hospital Building in Ward No.02

Agency : Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.

Customer's Reference : EE(Project)/Ynk Zone/WO/56/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-17

Sample ID No : 2017-09-23-07/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	18/09/2017	25/09/2017	150.14 X 150.24 X 150.47	22557	8.174	394.7	17.5	17.4
2	PCC	M20	18/09/2017	25/09/2017	150.11 X 150.98 X 150.44	22664	8.176	403.4	17.8	
3	PCC	M20	18/09/2017	25/09/2017	150.37 X 150.04 X 150.56	22562	8.142	381.3	16.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-23-07** **Date: 16/10/2017**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Hospital Building in Ward No.02

Agency : Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.

Customer's Reference : EE(Project)/Ynk Zone/WO/56/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-17

Sample ID No : 2017-09-23-07/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	18/09/2017	16/10/2017	150.54 X 150.43 X 150.66	22646	8.165	507.3	22.4	22.4
2	PCC	M20	18/09/2017	16/10/2017	149.65 X 150.11 X 150.65	22464	8.153	518.9	23.1	
3	PCC	M20	18/09/2017	16/10/2017	149.65 X 150.65 X 150.54	22545	8.165	491.5	21.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-26-07** **Date: 27/09/2017**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Hospital Building in Ward No.02

Agency : Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.

Customer's Reference : EE(Project)/Ynk Zone/WO/56/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-17

Sample ID No : 2017-09-26-07/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/09/2017	27/09/2017	150.15 X 150.47 X 150.98	22593	8.174	399.9	17.7	17.1
2	M20 Concrete	M20	20/09/2017	27/09/2017	150.44 X 150.78 X 150.77	22683	8.174	374.3	16.5	
3	M20 Concrete	M20	20/09/2017	27/09/2017	150.64 X 150.88 X 150.75	22729	8.125	390.9	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-26-07** **Date: 27/09/2017**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Hospital Building in Ward No.02

Agency : Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.

Customer's Reference : EE(Project)/Ynk Zone/WO/56/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-17

Sample ID No : 2017-09-26-07/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/09/2017	27/09/2017	150.15 X 150.47 X 150.98	22593	8.174	399.9	17.7	17.1
2	M20 Concrete	M20	20/09/2017	27/09/2017	150.44 X 150.78 X 150.77	22683	8.174	374.3	16.5	
3	M20 Concrete	M20	20/09/2017	27/09/2017	150.64 X 150.88 X 150.75	22729	8.125	390.9	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-26-07** **Date: 18/10/2017**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Hospital Building in Ward No.02

Agency : Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.

Customer's Reference : EE(Project)/Ynk Zone/WO/56/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-17

Sample ID No : 2017-09-26-07/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/09/2017	18/10/2017	150.88 X 150.64 X 150.88	22729	8.174	525.0	23.1	22.6
2	M20 Concrete	M20	20/09/2017	18/10/2017	150.47 X 150.66 X 150.64	22670	8.155	503.3	22.2	
3	M20 Concrete	M20	20/09/2017	18/10/2017	149.78 X 150.61 X 150.65	22558	8.179	507.6	22.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-28-11** **Date: 03/10/2017**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Hospital Building in Ward No.02

Agency : Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.

Customer's Reference : EE(Project)/Ynk Zone/WO/56/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-17

Sample ID No : 2017-09-28-11/01

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	26/09/2017	03/10/2017	150.82 X 150.51 X 150.19	22700	8.132	406.3	17.9	18.4
2	M25 Concrete	M25	26/09/2017	03/10/2017	151.04 X 150.23 X 150.11	22691	8.164	419.8	18.5	
3	M25 Concrete	M25	26/09/2017	03/10/2017	151.92 X 150.16 X 150.72	22812	8.206	426.6	18.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-28-11** **Date: 24/10/2017**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Hospital Building in Ward No.02

Agency : Sri.K.Gopireddy, #3, 1st cross, 1st main, Ramachandrappa Layout, Veerannapalya, Arabic College Post, Bangalore-560 045.

Customer's Reference : EE(Project)/Ynk Zone/WO/56/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-17

Sample ID No : 2017-09-28-11/02

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	26/09/2017	24/10/2017	150.23 X 150.14 X 150.26	22556	8.230	593.2	26.3	26.6
2	M25 Concrete	M25	26/09/2017	24/10/2017	150.46 X 150.29 X 150.87	22613	8.220	612.8	27.1	
3	M25 Concrete	M25	26/09/2017	24/10/2017	150.19 X 150.10 X 150.32	22544	8.230	597.4	26.5	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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****End of Report****